

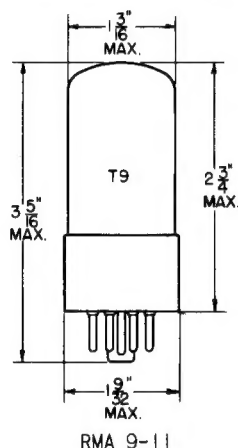
32L7-GT
Description and Rating
RECTIFIER-BEAM POWER AMPLIFIER
GENERAL DESCRIPTION

Principal Application: The 32L7-GT is a multipurpose tube, consisting of a beam power amplifier and half-wave rectifier. The tube is designed for use as the

Cathodes: Coated Unipotential
Heater Voltage (A-C or D-C) 32.5 Volts
Heater Current 0.3 Ampere

combined power rectifier and power amplifier in a-c/d-c receivers.

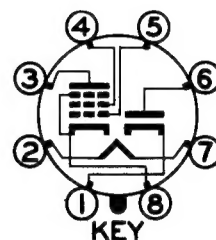
Envelope: T-9, Glass
Base: B8-6, Intermediate Shell Octal 8-Pin
Mounting Position: Any

PHYSICAL DIMENSIONS


RMA 9-11

TERMINAL CONNECTIONS

- Pin 1 - Rectifier Cathode
- Pin 2 - Heater
- Pin 3 - Amplifier Plate
- Pin 4 - Amplifier Grid Number 2 (Screen)
- Pin 5 - Amplifier Grid Number 1
- Pin 6 - Rectifier Plate
- Pin 7 - Heater
- Pin 8 - Amplifier Cathode and Beam Plates

BASING DIAGRAM

 RMA 8Z
BOTTOM VIEW

DESIGN CENTER VALUES:
RECTIFIER SECTION

A-C Plate Supply Voltage (RMS)	125	Volts
D-C Output Current	60	Milliamperes

CHARACTERISTICS AND TYPICAL OPERATION
AMPLIFIER SECTION (CLASS A₁ AMPLIFIER)

Plate Voltage	90	90	Volts
Screen Voltage	90	90	Volts
Grid Number 1 Voltage*	-5	-7	Volts
Plate Resistance	15000	17000	Ohms
Transconductance	6000	4800	Micromhos
Plate Current	38	27	Milliamperes
Screen Current	3.0	2.0	Milliamperes
Load Resistance	2600	2600	Ohms
Total Harmonic Distortion	5.3	9.0	Per Cent
Second Harmonic Component	2.2	6.5	Per Cent
Third Harmonic Component	4.6	5.5	Per Cent
Maximum-Signal Power Output	0.8	1.0	Watt

* The d-c resistance in the grid circuit should not exceed 0.5 megohm.

